

## ABSTRACT OF THE DISCLOSURE

An electric cell using aluminum in a negative electrode has a positive electrode, the negative electrode containing aluminum or aluminum alloy, and an electrolyte arranged between the positive electrode and the negative electrode. The electrolyte includes: at least one ion selected from a group of a sulfate ion ( $\text{SO}_4^{2-}$ ) and a nitrate ion ( $\text{NO}_3^-$ ); and an additive. The additive is selected from an organic acid, a salt of the organic acid, an hydrate of the organic acid, an ester of the organic acid, an ion of the organic acid, and derivatives thereof. Thus, the electric cell of the present invention using aluminum in a negative electrode allows the improvements in the voltage and the capacity of the cell as the generation of gas depending on the self-discharge can be prevented.